



Claim Chart for References submitted in first Information Disclosure Statement  
For Reissue Application No. 10/766,488

Claim Chart for Claim 61 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 95/20845	

DE	GB2253317A	
DF	GB2194700A	
DG	DE3735038A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board to a laser diode electric signal for a laser diode.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, a fiber optic module comprising a module cap to be inserted into light outlet and inlet openings defined by a frame along a light inlet and outlet direction.
EE	JP4-42756	EE through EG do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board to a laser diode electric signal for a laser diode.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board to a laser diode electric signal for a laser diode.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board to a laser diode electric signal for a laser diode.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board to a laser diode electric signal for a laser diode.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board to a laser diode electric signal for a laser diode.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board to a laser diode electric signal for a laser diode.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board to a laser diode electric signal for a laser diode.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

Claim Chart for Claims 62-65 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
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AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
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AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
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BE	DE3640099	
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Ref	Title	Distinction between reference(s) and claim(s)
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DI	DE4209253C1	
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DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board through a connector to a laser diode electric signal for a laser diode.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, a fiber optic module comprising a laser diode module including a laser diode, to convert a laser diode electric signal to a laser diode optical signal, which is adapted for transmission to an optical fiber connected with the laser diode module and has a data transmission rate of 1000 Mbits/s or more.
EE	JP4-42756	
EF	JP5-52802	
EG	JP3-157606	EE through EG do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board through a connector to a laser diode electric signal for a laser diode.

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	FA through FD do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board through a connector to a laser diode electric signal for a laser diode.

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board through a connector to a laser diode electric signal for a laser diode.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, a fiber

HB	USP5,104,243	optic module comprising a laser diode driver to convert serial data received from a mother board through a connector to a laser diode electric signal for a laser diode.
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board through a connector to a laser diode electric signal for a laser diode.
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IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

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JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board through a connector to a laser diode electric signal for a laser diode.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, a fiber optic module comprising a laser diode driver to convert serial data received from a mother board through a connector to a laser diode electric signal for a laser diode.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	

Claim Chart for Claims 69-79 of 10/766,488

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AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
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AI	USP5,717,533	
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AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

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BE	DE3640099	
BF	EP630174	
BG	DE3927752	

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CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
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DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 95/20845	
DE	GB2253317A	
DF	GB2194700A	

DG	DE3735038A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, a fiber optic module comprising a module cap adapted to be inserted into at least one of light outlet and inlet openings defined by a housing and adapted to prevent dust from invading a laser diode module and a photo diode module.
EE	JP4-42756	EE through EG do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

Claim Chart for Claims 80-81 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	AA through AP do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	BA through BG do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	CA through CD do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	DA through DK do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.

DG	DE3735038A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, a fiber optic module comprising a supporting plate to fix a housing to a circuit board of a computer.
EE	JP4-42756	EE through EG do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)

IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
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Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	KA through KC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.

Claim Chart for Claims 82-99 99 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
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AH	USP5,416,871	
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AL	USP5,879,173	
AM	EPO437161	
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AO	UK2087681	
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EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, a fiber optic module comprising a module cap adapted to be inserted into at least one of light outlet and inlet openings defined by a housing and adapted to prevent dust from invading a laser diode module and a photo diode module.
EE	JP4-42756	EE through EG do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
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Ref	Title	Distinction between reference(s) and claim(s)
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HE	USP5,329,428	
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Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
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Claim Chart for Claims 100-101 of 10/766,488

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JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	

Claim Chart for Claims 102-105 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	

DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, a fiber optic module comprising a module cap adapted to be inserted into at least one of light outlet and inlet openings defined by a housing and adapted to prevent dust from invading a laser diode module and a photo diode module.
EE	JP4-42756	EE through EG do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
IB	21 C.F.R. §1040.10 (Revised as of April 1,2002	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, a fiber optic module comprising a laser diode driver to drive a laser diode module according to serial data received from a computer through a connector.
KB	AMP, "Optimate Transceivers Application Note, "Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	

Claim Chart for Claims 106-121 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	

DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a mother board, into a laser diode electrical signal.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, an optical module comprising a laser diode module and a photo diode module being electrically connected to a circuit board proximate to a first edge of the circuit board that is opposite a second edge of the circuit board, which a serial connector is positioned proximate to.
EE	JP4-42756	EE through EG do not disclose, at least, an optical module comprising a laser diode electrical signal converter serial data, received from a mother board, into a laser diode electrical signal.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a mother board, into a laser diode electrical signal.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a mother board, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a mother board, into a laser diode electrical signal.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a mother board, into a laser diode electrical signal.
IB	21 C.F.R. §1040.10 (Revised as of April 1,2002	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a mother board, into a laser diode electrical signal.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a mother board, into a laser diode electrical signal.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	

Claim Chart for Claims 122-127 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	DA through DK do not disclose, at least, a module

DB	DE4013630A1	cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that foreign matter is prevented from invading into a first opening of the laser diode module and a second opening of the photo diode module when the module cap is removably attached to an optical module.
DC	DE3701788A1	
DD	GB2253317A	
DE	WO 05/20845	
DF	GB2194700A	
DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EG do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that foreign matter is prevented from invading into a first opening of the laser diode module and a second opening of the photo diode module when the module cap is removably attached to an optical module.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	
EE	JP4-42756	
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that foreign matter is prevented from invading into a first opening of the laser diode module and a second opening of the photo diode module when the module cap is removably attached to an optical module.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that foreign matter is prevented from invading into a first opening of the laser diode module and a second opening of the photo diode module when the module cap is removably attached to an optical module.

Ref	Title	Distinction between reference(s) and claim(s)

HA	USP5,011,246	HA through HF do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that foreign matter is prevented from invading into a first opening of the laser diode module and a second opening of the photo diode module when the module cap is removably attached to an optical module.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that foreign matter is prevented from invading into a first opening of the laser diode module and a second opening of the photo diode module when the module cap is removably attached to an optical module.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that foreign matter is prevented from invading into a first opening of the laser diode module and a second opening of the photo diode module when the module cap is removably attached to an optical module.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that foreign matter is prevented from invading into a first opening of the laser diode module and a second opening of the photo diode module when the module cap is removably attached to an optical module.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

Claim Chart for Claims 128-138 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	

DF	GB2194700A	
DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, a fiber optical module comprising a laser diode driver to convert serial data received through a surface mount type connector to a laser diode electrical signal for a laser diode.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, a fiber optical module comprising a laser diode driver to convert serial data received through a surface mount type connector to a laser diode electrical signal for a laser diode.
EE	JP4-42756	EE through EG do not disclose, at least, a fiber optical module comprising a laser diode driver to convert serial data received through a surface mount type connector to a laser diode electrical signal for a laser diode.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, a fiber optical module comprising a laser diode driver to convert serial data received through a surface mount type connector to a laser diode electrical signal for a laser diode.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a fiber optical module comprising a laser diode driver to convert serial data received through a surface mount type connector to a laser diode electrical signal for a laser diode.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, a fiber optical module comprising a laser diode driver to convert serial data received through a surface
HB	USP5,104,243	
HC	USP5,117,476	

HD	USP5,202,949	mount type connector to a laser diode electrical signal for a laser diode.
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a fiber optical module comprising a laser diode driver to convert serial data received through a surface
IB	21 C.F.R. §1040.10 (Revised as of April 1,2002	mount type connector to a laser diode electrical signal for a laser diode.
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a fiber optical module comprising a laser diode driver to convert serial data received through a surface
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	mount type connector to a laser diode electrical signal for a laser diode.

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, a fiber
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	optical module comprising a laser diode driver to convert serial data received through a surface
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	mount type connector to a laser diode electrical signal for a laser diode.

Claim Chart for Claims 139-157 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	

DF	GB2194700A	
DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, an optical module comprising a laser diode module and a photo diode module being electrically connected to a circuit board proximate to a first edge of the circuit board that is opposite a second edge of the circuit board, which a serial connector is positioned proximate to.
EE	JP4-42756	EE through EG do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
HB	USP5,104,243	
HC	USP5,117,476	

HD	USP5,202,949	connector transfers, into a laser diode electrical signal.
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
IB	21 C.F.R. §1040.10 (Revised as of April 1,2002	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	

Claim Chart for Claim 158 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	

DF	GB2194700A	
DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	
EE	JP4-42756	
EF	JP5-52802	
EG	JP3-157606	EA through EG do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, and being removably attachable to an optical module.

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	FA through FD do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, and being removably attachable to an optical module.

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, and being removably attachable to an optical module.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	HA through HF do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, and being removably attachable to an optical module.

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a module

IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, and being removably attachable to an optical module.
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, and being removably attachable to an optical module.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, and being removably attachable to an optical module.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

Claim Chart for Claims 159-162 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	DA through DK do not disclose, at least, a module

DB	DE4013630A1	cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that the first elastic part and the second elastic part protect the laser diode module and the photo diode module from foreign matter when the module cap is removably attached to an optical module.
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	
DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EG do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that the first elastic part and the second elastic part protect the laser diode module and the photo diode module from foreign matter when the module cap is removably attached to an optical module.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	
EE	JP4-42756	
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that the first elastic part and the second elastic part protect the laser diode module and the photo diode module from foreign matter when the module cap is removably attached to an optical module.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that the first elastic part and the second elastic part protect the laser diode module and the photo diode module from foreign matter when the module cap is removably attached to an optical module.

Ref	Title	Distinction between reference(s) and claim(s)

HA	USP5,011,246	HA through HF do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that the first elastic part and the second elastic part protect the laser diode module and the photo diode module from foreign matter when the module cap is removably attached to an optical module.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that the first elastic part and the second elastic part protect the laser diode module and the photo diode module from foreign matter when the module cap is removably attached to an optical module.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that the first elastic part and the second elastic part protect the laser diode module and the photo diode module from foreign matter when the module cap is removably attached to an optical module.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, a module cap comprising a first elastic part to protect a laser diode module and a second elastic part to protect a photo diode module, such that the first elastic part and the second elastic part protect the laser diode module and the photo diode module from foreign matter when the module cap is removably attached to an optical module.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

Claim Chart for Claims 163-165 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	

DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, an optical module comprising a laser diode driver to convert serial data, received from a motherboard, into a laser diode electrical signal.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, an optical module comprising a laser diode and a photo diode module electrically connected to a circuit board proximate to a first edge of the circuit board that is opposite a second edge of the circuit board, which a serial connector is positioned proximate to and in parallel with.
EE	JP4-42756	EE through EG do not disclose, at least, an optical module comprising a laser diode driver to convert serial data, received from a motherboard, into a laser diode electrical signal.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, an optical module comprising laser diode driver to convert serial data, received from a motherboard, into a laser diode electrical signal.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, an optical module comprising a laser diode driver to convert serial data, received from a motherboard, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, an optical module comprising a laser diode driver to convert serial data, received from a motherboard, into a laser diode electrical signal.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	

HF	USP5,018,130	
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Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, an optical module comprising a laser diode driver to convert serial data, received from a motherboard, into a laser diode electrical signal.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, an optical module comprising a laser diode driver to convert serial data, received from a motherboard, into a laser diode electrical signal.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, an optical module comprising a laser diode driver to convert serial data, received from a motherboard, into a laser diode electrical signal.
KB	AMP, "Optimate Transceivers Application Note, "Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	

Claim Chart for Claims 166-168 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	

DF	GB2194700A	
DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, an optical module comprising a laser diode module and a photo diode module electrically connected to a circuit board proximate to a first edge of the circuit board that is opposite a second edge of the circuit board, which a serial connector is positioned proximate to and in parallel with.
EE	JP4-42756	EE through EG do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, an optical module comprising a laser diode electrical signal
HB	USP5,104,243	

HC	USP5,117,476	converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
IB	21 C.F.R. §1040.10 (Revised as of April 1,2002	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, which a serial connector transfers, into a laser diode electrical signal.
KB	AMP, "Optimate Transceivers Application Note, "Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	

Claim Chart for Claim 170 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	

DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, an optical module comprising a laser diode module and a photo diode electrically connected to a circuit board proximate to a first edge of the circuit board that is opposite a second edge of the circuit board, which a serial connector is positioned proximate to.
EE	JP4-42756	EE through EG do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
KB	AMP, "Optimate Transceivers Application Note, "Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	

Claim Chart for Claim 171 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	

DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, an optical module comprising a laser diode module and a photo diode electrically connected to a circuit board proximate to a first edge of the circuit board that is opposite a second edge of the circuit board, which a serial connector is positioned proximate to.
EE	JP4-42756	EE through EG do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

Claim Chart for Claims 172-175 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	

DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, an optical module comprising a laser diode module and a photo diode module electrically connected to a circuit board proximate to a first edge of the circuit board that is opposite a second edge of the circuit board, which a serial connector is positioned proximate to.
EE	JP4-42756	EE through EG do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
IB	21 C.F.R. §1040.10 (Revised as of April 1,2002	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	

Claim Chart for Claim 176-177 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	AA through AP do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	BA through BG do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	CA through CD do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	DA through DK do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.

DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, an optical module comprising a plurality of pins to mount the optical module to a mother board, wherein the pins are fixed to a frame.
EE	JP4-42756	EE through EG do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
IB	21 C.F.R. §1040.10 (Revised as of April 1,2002	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

Claim Chart for Claims 178-179 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	

DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, an optical module comprising a laser diode module and a photo diode module electrically connected to a circuit board proximate to a first edge of the circuit board that is opposite a second edge of the circuit board, which a serial connector is positioned proximate to.
EE	JP4-42756	EE through EG do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

Claim Chart for Claims 180-181 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	

DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	ED does not disclose, at least, an optical module comprising a plurality of pawls to removably engage a fiber optic plug to the optical module.
EE	JP4-42756	EE through EG do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)

IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, an optical module comprising a laser diode electrical signal converter to convert serial data, received from a motherboard, into a laser diode electrical signal.
KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

Claim Chart for Claims 182-183 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	
DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	DA through DK do not disclose, at least, a module cap comprising a first cap portion and a second cap portion to protect a laser diode module and a photo diode module of an optical module, respectively, such that the first cap portion and the second cap portion are each formed having a cavity with a projection formed therein, and into each of the cavities one of a laser diode module and a photo diode module is at least partially inserted when the module cap is attached to the optical module.

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	
EE	JP4-42756	
EF	JP5-52802	
EG	JP3-157606	EA through EG do not disclose, at least, a module cap comprising a first cap portion and a second cap portion to protect a laser diode module and a photo diode module of an optical module, respectively, such that the first cap portion and the second cap portion are each formed having a cavity with a projection formed therein, and into each of the cavities one of a laser diode module and a photo diode module is at least partially inserted when the module cap is attached to the optical module.

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	FA through FD do not disclose, at least, a module cap comprising a first cap portion and a second cap portion to protect a laser diode module and a photo diode module of an optical module, respectively, such that the first cap portion and the second cap portion are each formed having a cavity with a projection formed therein, and into each of the cavities one of a laser diode module and a photo diode module is at least partially inserted when the module cap is attached to the optical module.

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a module cap comprising a first cap portion and a second cap portion to protect a laser diode module and a photo diode module of an optical module, respectively,

		such that the first cap portion and the second cap portion are each formed having a cavity with a projection formed therein, and into each of the cavities one of a laser diode module and a photo diode module is at least partially inserted when the module cap is attached to the optical module.
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Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, a module cap comprising a first cap portion and a second cap portion to protect a laser diode module and a photo diode module of an optical module, respectively, such that the first cap portion and the second cap portion are each formed having a cavity with a projection formed therein, and into each of the cavities one of a laser diode module and a photo diode module is at least partially inserted when the module cap is attached to the optical module.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a module cap comprising a first cap portion and a second cap portion to protect a laser diode module and a photo diode module of an optical module, respectively, such that the first cap portion and the second cap portion are each formed having a cavity with a projection formed therein, and into each of the cavities one of a laser diode module and a photo diode module is at least partially inserted when the module cap is attached to the optical module.
IB	21 C.F.R. §1040.10 (Revised as of April 1, 2002)	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a module cap comprising a first cap portion and a second cap portion to protect a laser diode module and a photo diode module of an optical module, respectively, such that the first cap portion and the second cap portion are each formed having a cavity with a projection formed therein, and into each of the cavities one of a laser diode module and a photo diode module is at least partially inserted when the module cap is attached to the optical module.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	
KB	AMP, "Optimate Transceivers Application Note, "Publication #4661-8, Oct. 1989.	KA through KC do not disclose, at least, a module cap comprising a first cap portion and a second cap portion to protect a laser diode module and a photo diode module of an optical module, respectively, such that the first cap portion and the second cap portion are each formed having a cavity with a projection formed therein, and into each of the cavities one of a laser diode module and a photo diode module is at least partially inserted when the module cap is attached to the optical module.
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,	

Claim Chart for Claim 184 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	AA through AP do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	BA through BG do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	CA through CD do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	DA through DK do not disclose, at least, a module

DB	DE4013630A1	cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	
DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EG do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	
EE	JP4-42756	
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.

Ref	Title	Distinction between reference(s) and claim(s)

HA	USP5,011,246	HA through HF do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.
IB	21 C.F.R. §1040.10 (Revised as of April 1,2002	
IC	Thomas & Betts, "INFO-LAN Transceiver," 1988.	

Ref	Title	Distinction between reference(s) and claim(s)
JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	JA through JB do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.
JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

Ref	Title	Distinction between reference(s) and claim(s)
KA	USP5,019,769	KA through KC do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity, such that the module cap is formed having the laser diode cavity into which a laser diode module is at least partially inserted and the photo diode cavity into which a photo diode module is at least partially inserted.
KB	AMP, "Optimate Transceivers Application Note, "Publication #4661-8, Oct. 1989.	
KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

Claim Chart for Claim 185 of 10/766,488

Ref	Title	Distinction between reference(s) and claim(s)
AA	USP4,129,349	
AB	USP4,149,072	
AC	USP4,291,943	
AD	USP4,595,839	
AE	USP5,111,363	
AF	USP5,202,943	
AG	USP5,295,214	
AH	USP5,416,871	
AI	USP5,717,533	
AJ	USP5,734,558	
AK	USP5,864,468	
AL	USP5,879,173	
AM	EPO437161	
AN	EPO624962	
AO	UK2087681	
AP	JP3-218134	

Ref	Title	Distinction between reference(s) and claim(s)
BA	USP5,228,188	
BB	USP5,113,317	
BC	DE8422793	
BD	DE4333387	
BE	DE3640099	
BF	EP630174	
BG	DE3927752	

Ref	Title	Distinction between reference(s) and claim(s)
CA	USP5,497,289	
CB	USP4,836,107	
CC	USP5,057,025	
CD	DE84 22793.091	

Ref	Title	Distinction between reference(s) and claim(s)
DA	DE4303780C1	
DB	DE4013630A1	
DC	DE3701788A1	
DD	WO 05/20845	
DE	GB2253317A	
DF	GB2194700A	

DG	DE3730538A1	
DH	DE3743483A1	
DI	DE4209253C1	
DJ	JP3-116669	
DK	JP4-116372	

Ref	Title	Distinction between reference(s) and claim(s)
EA	USP5,005,939	EA through EG do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity.
EB	USP5,475,518	
EC	USP5,109,454	
ED	USP5,479,288	
EE	JP4-42756	
EF	JP5-52802	
EG	JP3-157606	

Ref	Title	Distinction between reference(s) and claim(s)
FA	USP5,606,161	FA through FD do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity.
FB	DE3735038A1	
FC	DE3743483A1	
FD	DE4209253C1	

Ref	Title	Distinction between reference(s) and claim(s)
GA	JP3-157606	GA does not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity.

Ref	Title	Distinction between reference(s) and claim(s)
HA	USP5,011,246	HA through HF do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity.
HB	USP5,104,243	
HC	USP5,117,476	
HD	USP5,202,949	
HE	USP5,329,428	
HF	USP5,018,130	

Ref	Title	Distinction between reference(s) and claim(s)
IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	IA through IC do not disclose, at least, a module cap comprising a laser diode projection formed in a laser diode cavity and a photo diode projection formed in a photo diode cavity.
IB	21 C.F.R. §1040.10 (Revised as of April 1,2002	
IC	Thomas & Betts, "INFO-LAN Transceiver,"	

	1988.	
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KC	N. Yoshizawa et al., "1.25Gb/s Transceiver with SC Duplex Optical Receptacle,"	

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